

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strike through~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

1. (currently amended) A simplified model creation assisting apparatus used when a simplified model is created from a displayed detailed shape, comprising:

- a selecting unit selecting a point on a displayed detailed shape;
- a generating unit generating a plane configured by selected points;
- a model generating unit generating a simplified model corresponding to the detailed shape composed of data which indicates the generated plane; and
- a display unit displaying the simplified model so that when an angle of normals of adjacent planes generated by the generating unit is smaller than a predetermined value a line between the adjacent planes is maintained in the model and not displayed.

2. (original) The simplified model creation assisting apparatus according to claim 1, wherein

- a selection of the point is graphically made with a mouse pointer.

3. (original) The simplified model creation assisting apparatus according to claim 1, wherein

- the simplified model is configured by a plurality of polygons.

4. (original) The simplified model creation assisting apparatus according to claim 3, wherein

- the plurality of polygons are triangles.

5. (original) The simplified model creation assisting apparatus according to claim 3, wherein the plurality of polygons are quadrangles.

6. (original) The simplified model creation assisting apparatus according to claim 1, wherein

a selection of the point is made on a display screen on which a detailed shape is displayed, and a simplified model configured by selected points is displayed in a display region different from the detailed shape.

7. (original) The simplified model creation assisting apparatus according to claim 1, wherein

a selection of the point is made on a display screen on which a detailed shape is displayed, and a simplified model configured by selected points is overlaid on the detailed shape, and displayed.

8. (original) The simplified model creation assisting apparatus according to claim 7, wherein

one of the simplified model and the detailed shape is drawn translucently, the simplified model and the detailed shape are displayed in different colors, or one of the simplified model and the detailed shape is drawn translucently and the simplified model and the detailed shape are displayed in different colors.

9. (currently amended) A simplified model creation assisting method used when a simplified model is created from a displayed detailed shape, comprising:

selecting a point on a displayed detailed shape; generating a plane configured by selected points;

generating a simplified model corresponding to the detailed shape composed of data which indicates the generated plane; and

displaying the simplified model so that when an angle of normals of adjacent planes generated by the generating step of the plane is smaller than a predetermined value a line between the adjacent planes is maintained in the model and not displayed.

10. (original) The simplified model creation assisting method according to claim 9, wherein

a selection of the point is graphically made with a mouse pointer.

11. (original) The simplified model creation assisting method according to claim 9, wherein

the simplified model is configured by a plurality of polygons.

12. (original) The simplified model creation assisting method according to claim 11, wherein the plurality of polygons are triangles.

13 (original) The simplified model creation assisting method according to claim 11, wherein the plurality of polygons are quadrangles.

14. (original) The simplified model creation assisting method according to claim 9, wherein

a selection of the point is made on a display screen on which a detailed shape is displayed, and a simplified model configured by selected points is displayed in a display region different from the detailed shape.

15. (original) The simplified model creation assisting method according to claim 9, wherein

a selection of the point is made on a display screen on which a detailed shape is displayed, and a simplified model configured by selected points is overlaid on the detailed shape, and displayed.

16. (original) The simplified model creation assisting method according to claim 15, wherein

one of the simplified model and the detailed shape is drawn translucently, the simplified model and the detailed shape are displayed in different colors, or one of the simplified model and the detailed shape is drawn translucently and the simplified model and the detailed shape are displayed in different colors.

17. (currently amended) A simplified model creation assisting program used when a simplified model is created from a displayed detailed shape, which causes an information processing device to execute a simplified model creation assisting method, the method comprising:

selecting a point on a displayed detailed shape; generating a plane configured by selected points;

generating a simplified model corresponding to the detailed shape composed of data which indicates the generated plane; and

displaying the simplified model so that when an angle of normals of adjacent planes generated by the generating step of the plane is smaller than a predetermined value a line between the adjacent planes is maintained in the model and not displayed.

18. (original) The simplified model creation assisting program according to claim 17, wherein

a selection of the point is graphically made with a mouse pointer.

19. (original) The simplified model creation assisting program according to claim 17, wherein

the simplified model is configured by a plurality of polygons.

20. (original) The simplified model creation assisting program according to claim 19, wherein the plurality of polygons are triangles.

21. (original) The simplified model creation assisting program according to claim 19, wherein the plurality of polygons are quadrangles.

22. (original) The simplified model creation assisting program according to claim 17, wherein

a selection of the point is made on a display screen on which a detailed shape is displayed, and a simplified model configured by selected points is displayed in a display region different from the detailed shape.

23. (original) The simplified model creation assisting program according to claim 17, wherein

a selection of the point is made on a display screen on which a detailed shape is displayed, and a simplified model configured by selected points is overlaid on the detailed shape, and displayed.

24. (original) The simplified model creation assisting program according to claim 23, wherein

one of the simplified model and the detailed shape is drawn translucently, the simplified model and the detailed shape are displayed in different colors, or one of the simplified model and the detailed shape is drawn translucently and the simplified model and the detailed shape are displayed in different colors.

25. (previousy presented) The simplified model creation assisting apparatus according to claim 1, wherein

the data which indicates the generated plane is composed of data of the selected points, data of lines connecting the points, and data of a plane of a region enclosed by the points and the lines.

26. (original) The simplified model creation assisting method according to claim 9, wherein

the data which indicates the generated plane is composed of data of the selected points, data of lines connecting the points, and data of a plane of a region enclosed by the points and the lines.

27. (original) The simplified model creation assisting program according to claim 17, wherein

the data which indicates the generated plane is composed of data of the selected points, data of lines connecting the points, and data of a plane of a region enclosed by the points and the lines.